

ABSTRACT

An energy absorption device for providing a softer stop arrangement between a pair of components. A compressible bumper is placed into a flexible cup. A ring is place around the flexible cup. Upon application of force between the components, the compressible bumper collapses into the flexible cup and the cup begins to expand radially. The ring prevents the cup from expanding to the point of flattening and provides the device with a definite rigid stop. The device is usable between any two components to prevent collisions between the components up to a certain force between them and is also usable between a strut assembly and a vehicle suspension frame.